

Year 1- Structures and Mechanisms

How can I make an illustration move?

Design and Technology

Design Brief

To design and make an illustration from a book with a moving picture.

Key Vocabulary

construct	To build or make something.
template	Something that can be used to cut around to make an accurate shape.
slot	A long, narrow hole or slit for something to be inserted.
sliding	Able to move smoothly along a surface.
fastener	A device that closes or secures something.
join	Used to link or fasten parts together.

Key Skills

- Levers and sliders can be found in existing products such as pop-up books. A slider allows for movements from side to side or up and down. You can use a slot, in paper to do this.
- Materials can be adapted to allow them to move.
- Use the correct methods to create a slot, in paper. Mark out and measure the length of the slot and the size of the moving character.
- Make a handle by cutting and attaching the character to a lollipop stick which will be held to move the character along.
- A product must be appealing to the person it is being made for. You can do this by decorating the product.

What I Should Already Know

- Ideas are needed to create a design.
- How to use and carry scissors safely.
- Materials can be joined in different ways using glue and tape.
- To cut around a template with increased accuracy.
- To fold and join different materials.



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Key Information

- Moving pictures can be complicated or simple. Moving pictures can be assembled with a series of sliders and levers.
- Moving pictures are engaging, they have tabs and flaps that turn ordinary illustrations into interactive story telling.
- Pop-up pictures are often brightly illustrated.

Links to other Learning

- Maths - measures
- Art and Design
- English, speaking and listening and story-telling
- D & T - mechanisms all year groups and pop-up books year 4

Key Questions

- Appearance/aesthetics - how will it look? Can you say what you are making?
- Cost - how much will it cost to make?
- Customer - can you give your design a name?
- Environment - can it be recycled?
- Size - how big or small is it?
- Safety - how will you make it safe to use? Which way of making something with moving parts will you choose to use and why?
- Function/purpose - how will it work? How will your design involve a range of moving parts?
- Materials - what will you make it from? Have you planned your design and how you will create it?
- Manufacture - how will you make it? Do I like what I have made? Why or why not?

